Warns Motor Men English and French Plan Mass Production.

American motor car manufacturers who are awake to the possibilities of foreign markets have an opportunity to become the prime movers in establish-ing those international relations which will give to America the dominant posi-tion in world commerce she is destined

to occupy.

England, France and Japan, who will be her chief rivals in the contest for commercial supremacy, are looking to the automobile industry for leadership. because transportation is regarded as the most necessary factor in the post-war development of the trade of the

This is the opinion of Edward S. Jordan, who has returned from Europe after an investigation of the meter car industry in England and France.

of motor cars, while the French makers are hoping to compete with the Ameri-can makers by producing automobiles in sufficient quantities to meet the American product in foreign markets.

Before the war it was the policy of the French and English makers to build motor cars largely of special design to suit the limited patronage of only the wealthier classes. The inevitable result of this policy is shown in the fact that on January 1, 1817, only 437,558 motor cars were in use in Europe. On this date there were in use in the entire world, exclusive of the United States,

All of the leading manufacturers in England and on the Contingnt were enabled with the aid of their Goyarn-ment to make large additions to their plants and equipment for the produc-tion of war necessities, and this equip-

realization of these standards depends their future prosperity. Since the day the armistice was signed the most progressive British and French makers have been equipping their plants and training their men in imitation of American methods.

creased output, have not stocked the market. The market, in fact, is still far undersold. No better proof of that condition can methods.

Various obstacles, however, stand in the way of these nations to retard their rapid growth. The devastated iron and coal mines, the shortage of castings brought about by a prolonged strike of British foundrymen, the lack of factories to produce individual units and the ever increasing demands for higher wages are factors which must be considered before a maximum output of European cars can be realized, and it is safe to say that it will be some time before these problems will be solved. Since the English standard of wages is rapidly approaching that the standard of wages is rapidly approaching that are the Valeta Steizs the commention of the field of t ard of wages is rapidly approaching that of the United States the competition of cheaper labor will soon be eliminated and British manufacturer will be on a

per with the American.
The Olympia Motor Show held in London was undoubtedly the largest display of its kind ever held in the world. Many new models were shown, but none of the manufacturers has been able up to this time to get these new models into pro-duction on a quantity basis. The very light car heraided as a competitor of the light car heraided as a competitor of the cheaper American car has not been able to negotiate satisfactorily the American roads for it was constructed to cover the paved roads of Europe.

A very friendly feeling for America is exhibited throughout England and

While the deterrent effects of the war upon those countries have not been exaggerated, the people are awake to the necessity of hard work and economy to regain their position, and they are lookng to America for guidance in cice of methods by which this may be

FORERUNNERS OF NEW ERA. Cole Aero-Eight Herald Vogue in Design.

The Cole Aero-Eight models on exhibition at the Automobile Show not only herald a new vogue in motor car design

but represent a new and expanding era in motor car performance.

This latter fact has been proved to the satisfaction of thousands of owners, who after more than a year of experience, vouch for the power, speed, econ-only, comfort and dependability of this,

omy, comfort and dependability of this, the original aerotype car.

Among the Cole Aero-Eights distinc-tive claims to recognition in the motor world are its increased the mileage, its fuel economy, its power, speed and ac-culeration, its mechanically correct body, its shock absorbing frame, its ability to operate with maximum efficiency even with low grades of fuel, and its acrotype design.

The original tire equipment on the Cole Aero-Eight is capable of 15,000 miles or more, an unprecedented achiet ement among motor cars.

A year of tests has proved that an average of from twelve to fourteen miles

per gallon of gasoline in an eighty horse power, eight cylinder votor is a con-sistent reality of the Aero-Eight. Its great reserve power, speed, accel-eration and smoothness of operation is

eration and smoothness of operation is due not only to the increased efficiency of the motor but to aerotype engineering principles embodied in the car as a whole. By reason of these the Cole Acro-Eight, weighing only 3,600 pounds, travels at a speed of seventy miles an hour with no greater effort and vibra-tion than if it were travelling thirty-



New Overland Four Attracts Wide Attention.



England now is rapidly making plans for what they call "mass production" SAYS LIGHT CARS WILL BE FAVORED

John N. Willys Sees Record Market for Cars of Overland Four Type.

President Willus-Overland Company. town has been sharply accentuated by the war and its consequent develop-ment of greater traffic and transporta-tion needs. To 1929 men look with a new hopefulness and new optimism. In the automobile industry it seems quite ment is being rapidly turned toward the production of automobiles.

It is significant that these countries are looking to America for standards of "quantity production," for upon a full power of the public probably never has power of the public probably never has been so large. And the automobile has



this trend toward the good light car imperative. Among these may be noted the growing congestion of traffic in cities and towns with parking space at

There is reason for that demand be-yout the weekly garage bill. We are facing the fact that at least 40 per cent, of the estimated available petroleum supplies underground have been consumed. There are no known com mercial substitutes for gasolene or for lubricating oils. These statements seem startling, but they are fathered by no less an authority than J. O. Lewis, acting director of the United States Bureau of Mines, Department of the Interior. They have been made public by his department to emphasize the great need for conservation of gasolene and oils while extensive research seeks practical substitutes. Setter motor cars is the immediate answer to the

The problems confronting the automo The problems confronting the automobile manufacturer who seeks to meet the public's wants may fall briefly under the following considerations:

1. Strictest operating and maintenance economies because of the era of

3. A 1920 good roads programme five to six times as large as any single year's programme before this, vastly enlarg-ing the automobile field for business and

MILLER TIRE SALES

Exceeded Expectations by 50 Greatest Care Exercised in Se-Per Cent.-Plant Is Greatly Enlarged.

from the standpoint of production and zations of the kind in the country under the leadership of General Manager A. sales, according to F. C. Millhoff, gen-the leadership of General Manager A. H. Zimmerman. eral sales manager of that big Akron

nearly 50 per cent. increase over the previous year and that it would exceed even the most optimistic expectations of Miller officials as announced in January, 1919.

But in spite of the healthy 1919 showing, Miller appears to have by no means finished its growing stages. The company, it is pointed out, has already added much new factory space and equipment, which will make possible a still greater growth in 1920.

Miller it would seem from reports.

Miller, it would seem from reports, is out to smash all of its previous records this coming year. This statement applies to both tires and drug undries. Also it is emphasized that Miller will not depart in the slightest way from its "long time policy of conservative expansion."

"The growth that we anticipate and are planning for," said Mr. Milihoff. "will be strictly due to an increased emand for our products."

When the general sales manager was asked what he considered the biggest factors in the sales growth of Miller tires he answered: "The quality of the tire itself. That same selling point which established such prominence for Miller tires in previous years—uniform mileage combined with the genred to the 2. The increasing utility of the auto-nobile in the development of all lines road tread—was undoubtedly a most influential factor in the creation of pub

DEMAND FOR BUS BODIES GROWS. programme before this, vasity enlarging the automobile field for business and recreation, and again demanding economical motor car operation so as to be within the reach of all.

4. Congestion of railroads and interprising making the automobile more necessary and desirable than ever.

5. Increased traffic congestion in cities limiting the use of the big, heavy automobile.

In my opinion all these conditions—traffic, urban development, petroleum stock depletion—indicate that the light car is the car of to-day and the future.

STRENGTH BEHIND SHATTER RECORDS SUPREME MOTORS

lection of Departmental Heads and Foremen.

The Supreme Motors Corporation, The passing of the year 1919 marked to make four and six cylinder meters, history of the Miller Rubber Company is building one of the strongest organi-

General Manager Zimmerman is using the utmost care not only in the seleo The annual report not having been and other start officers, but in the selection as foremen of the various departments of men of recognized standing. the exact figures of sales increase. He A motor or any other product is sim-ply a reflection of the men who build that product, is General Manager Zim-

> many years, and he is known far an wide in the trade. V. M. Smith, ger eral superintendent at the Suprem plant, occupied a similar position with the Continental and later with the Hudson Motor Company, which latter post tion he held until he left to join the Under the direction of these two men the installations of the most modern

the Warren plant, and the organization In February it will be of known merit.

Another indication of the high calibre of the Supreme Motors force is contained in the appointment of Robert A. Weinhardt an automotive engineer of national reputation, as chief engineer in charge of both engineering and in-spection departments.

Production of the motor has been delayed by conditions resulting from the war, but Mr. Zimmerman announces that production will begin this month.

COLD NO BAR TO LIBERTY SIX.

Complete vaporization of the cold weather is conditional reputation. of the plant forces completed. For months the new motors have been under exhaustive tests so that when the national reputation, as chief engineer in charge of both engineering and inspection departments. Mr. Weinhardt, who came to the Supreme Motors Corporation from Continental, has been in



A. H. ZIMMERMAN.

the motor field gince 1906, serving not only as engineer with several big .com-panies but also having served as super-

The policy of this company, as an-nounced by General Manager Zimmer-man, is to build motors so perfectly equipment available have been made in of a car without the expense of addi-

DISPLAY OF WINTER TOPS ATTRACTIVE

G. W. Copp Co. Exhibit Draws Many Visitors.

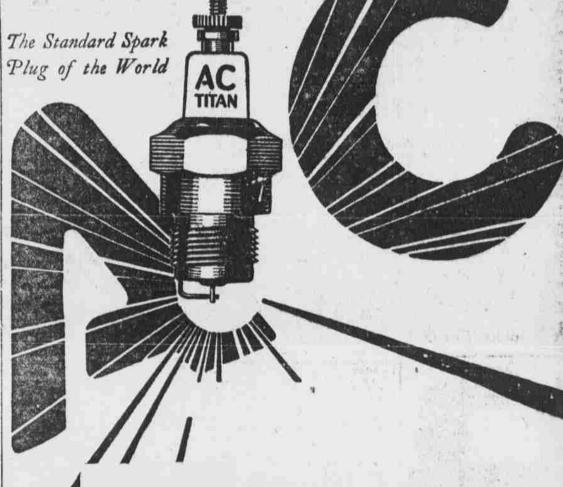
The great and growing automobile winter top industry is visua tzed in the exhibit of Anchor winter tops and closed bedies at the Automobile Show by Ge W. Copp Company, 236 West Fifty-fourth street, New York. The distribu-tion of the Anchor products in the East has brought together two interesting personalities, both of whom have head intimately connected with the second intimately connected with the growth of the top and body branch of the automoile industry.
In the early stages of the develop

In the early stages of the development of the automobile the mechanical parts of the machine were given most attention and the bodies were simply the means of providing seats for the driver and the passengers. As automobiles became more popular greater attention was paid to the development of the body.

With the increasing attention paid to remements of detail in the body came With the increasing attention paid to refinements of detail in the body came the development of the winter top, which enables the owner to drive in comfort the year round. The building of topicand bodies is gurely a coach building process, and it is very natural that the old Anchor company, known throughout the world as builders of coaches and carriages, should have turned their atcarriages, should have turned their at-

Much of the success of the Anchor or ranization has been due to the untiring forts and splendid ability of Earl M Galbraith, now vice-president and general manager of the Anchor Top and Body Company. Born in Des Moines. Iowa. in 1879, Mr. Galbraith has Western energy and breadth of vision, and the larger achievements of his career are yet before him. His first association with carriage building was in a suborffinate position with the Anchor Buggy Company and afterward as Eastern manager of the Lion Buggy Company, which was then an Anchor company are

George W. Copp is well known to au-tomobile owners and the trade in New



Their Title Is Secure

The standard spark plug of the world!

This is the title won by AC's in many years of unerringly reliable service.

And their title is secure.

During the year of 1919, they were put to the test time and again with always the same sult.

AC's stood up under the terrific strains imposed on them by automobile race drivers, airplane pilots and speed boat helmsmen.

They rode with Tommy Milton in the Duesenberg that crowded 113 miles into one fleeting hour.

They sparked the Curtiss Wasp that climbed with Roland Rohlfs to the roof of the world.

They dashed to Gold Cup victory, in the American power boat championships, with Miss Detroit the Third.

In the light of these and many other notable achievements, can you wonder why AC Plugs are the choice of the leading passenger car, motor truck and tractor makers as standard equipment?

For unfailing ignition, equip your car with AC's. Their superiorities have been conclusively proven. You can rely on them to the utmost.

Champion Ignition Company, FLINT, Michigan



At the show the one display you cannot afford to miss

dation by A. G. SEIBERLING, Vice-President and General Manager of The Haynes Automobile Company, Kokomo, Indiana



N the Haynes exhibit there will be surprises for you-newness without oddness-a display that will hold your interest and attention because of its real value to you as a car owner or an intending one.

Two distinct new types of fashionable closed cars are included in the showing-the last word in extreme refinement of design and quiet luxury of adornment.

Character-character-character-always the keynote of Haynes design and construction, will be presented to you with a rare perfection.

The exhibit will demonstrate that the dominant Haynes principle, since the day Elwood Haynes presented America's first car twenty-seven years ago, has always been not merely to keep pace with progress, but to lead.

As a presentation of the choicest in modern motor car creation, the Haynes exhibit will excite as much interest and create as much comment as did the original Haynes car which pioneered the way for America in automobiles.

It is the one exhibit you cannot afford to miss—the first one you should see-the one you will always remember.

You will enjoy it as you can only enjoy the highest development of the genius of the designer, the engineer, the builder, and all the other experts whose craft and handiwork are called upon for your interest and enjoyment.

THE HAYNES AUTOMOBILE COMPANY, KOKOMO, INDIANA, U. S. A

The Haynes display is Exhibit A-7, Grand Central Palace

